

CLAIMS

What is claimed is:

1. ~~An addressable display device comprising:~~

- (a) a light-transparent support body containing a plurality of anisotropic particles contained within dielectric liquid-filled cavities thereof, the walls of said cavities having a higher dielectric constant than that of said dielectric fluid;
- (b) a parallel pair of electrical conductors, one on each surface of said support body and at least one of which is light-transparent;
- (c) each of said anisotropic particles of the support body having dissimilar sections of contrasting optical appearance and electrical conductivity, one section having an anisotropy for inducing a dipole moment which renders said section electrically-responsive
- (d) said dielectric liquid containing an ionizable charge director material which, under application of an electric field between said electrical conductors, forms mobile ions of opposite charge which move within said liquid towards the cavity wall adjacent the electrical conductor of opposite polarity, said mobile ions inducing said dipole moment and rotating said particles so that the one section thereof faces the electrical conductor of opposite polarity each time the polarity between said conductors is reversed.

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2. ~~An addressable display device according to claim 1 in which the particles require the application of an electric field of a predetermined magnitude or threshold to the electrodes to cause the particles to release from attraction to one electrode and to rotate and face the other electrode.~~
3. ~~An addressable display device according to claim 1 in which said particles are bichromal balls and said sections are hemispheres.~~

TOP SECRET